

Application/Control No.

09/670,783 Examiner

Isaac M. Woo

Applicant(s)/Patent under Reexamination

MELLMER ET AL.

Art Unit

2166

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   | Postricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Claim Date |          |              |  | Cla             | Date            |          |          |                     |          |          |                  |          | CI              | Date     |          |                 |          |  |   |       |             |          |                     |          |          |          |          |               |           |          |
|------------|----------|--------------|--|-----------------|-----------------|----------|----------|---------------------|----------|----------|------------------|----------|-----------------|----------|----------|-----------------|----------|--|---|-------|-------------|----------|---------------------|----------|----------|----------|----------|---------------|-----------|----------|
| Final      | Original | 4/25/06      |  |                 |                 |          |          |                     |          | Final    | Original         | 4/25/06  |                 |          |          |                 |          |  |   | Final | Original    | 4/26/06  |                     |          |          |          |          |               |           |          |
|            | 0        | 4            | <u> </u>   |                 |                 |          |          | Ш                   | _        |          |                  | 4        |                 | <u> </u> | 1        |                 | _        | _  |   |       |             | 4        |                     |          |          |          |          | $\perp$       | _         |          |
|            | 2        | -            | ╁╌   | Н               | Н               |          | -        | $\vdash$            | -        |          | 51<br>52         | Ť        | $\dashv$        | -        | +        | ╌┼              | +        | +  |   |       | 10 <u>1</u> | ·        |                     | -        |          | -        | -        | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 3        | 1            | +  | $\vdash$        | Н               | -        | -        | ╁                   | -        |          | 53               | V        | $\dashv$        | +        | ╁        | 1-1             | +        | +  |   |       | 102         | $\vdash$ |                     | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  |          |
| ┢          | 4        | i            | <del>                                     </del> | $\vdash$        | Н               |          |          | $\vdash$            | -        |          | 54               | 寸        | $\dashv$        | -        | +        | $\vdash$        | $\dashv$ | +  |   |       | 103         | ┢        |                     | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -+            | $\dashv$  | $\dashv$ |
|            | 5        | 1            | ╁╌┈  | H               | $\vdash$        | _        | _        | $\vdash$            | -        |          | 55               | V        | $\dashv$        | +        | +        | $\vdash$        | _        | +  |   | -     | 105         |          |                     | $\dashv$ |          | -        | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 6        | 1            | $\top$   |                 | П               |          |          |                     |          |          | 56               | 1        | $\dashv$        | $\top$   | † •      | $\Box$          | 十        | -  |   |       | 106         | $\vdash$ |                     |          | -        | $\neg$   | $\dashv$ | $\dashv$      | 寸         | $\dashv$ |
|            | 7        | 1            | $\top$   |                 |                 |          |          |                     |          |          | 57               | 1        | $\dashv$        | $\top$   | $\top$   | $\Box$          | 寸        |  |   |       | 107         | Г        |                     |          |          |          |          | $\dashv$      | 寸         | ᅥ        |
|            | 8        | 7            |  |                 |                 |          |          |                     |          |          | 58               | 1        |                 | 1        |          |                 | T        |  |   |       | 108         | Г        |                     |          |          |          |          | $\neg$        | ヿ         |          |
|            | 9        | 7            |  |                 |                 |          |          |                     |          |          | 59               | -        |                 |          | 1        | П               | 寸        |  |   |       | 109         |          |                     |          |          |          |          |               | $\neg$    |          |
|            | 10       | V            |  |                 |                 |          |          |                     |          |          | 60               | -        |                 |          |          |                 |          |  |   |       | 110         |          |                     |          |          |          |          |               | T         |          |
|            | 11       | 1            |  |                 | $\square$       |          |          |                     |          |          | 61               | Ŀ        |                 |          |          |                 |          |  |   |       | 111         |          |                     |          |          |          |          |               | $\Box$    |          |
|            | 12       | 1            | <u> </u>   |                 | Ш               |          |          |                     | _        |          | 62               | Ŀ        |                 |          |          |                 |          |  |   |       | 112         |          |                     |          |          |          |          |               | $\Box$    |          |
|            | 13       | <b>V</b>     |  | Ш               | $oxed{\Box}$    |          |          |                     | _        |          | 63               | Ŀ        | $\Box$          |          | $\perp$  | П               | I        |  |   |       | 113         |          |                     |          |          |          |          | $\Box$        | $\Box$    |          |
|            | 14       | 1            | $\perp$  | Ш               | Ш               |          |          | Ш                   |          |          | 64               | <u> </u> | $\sqcup$        |          | 1_       | Ш               |          |  |   |       | 114<br>115  | L        | Ш                   |          |          |          |          |               | $\Box$    |          |
| L          | 15       | <b>V</b>     | <b>—</b>   |                 | <u> </u>        | _        |          | $\sqcup$            | _        |          | 65               | Ŀ        | _               | 4        |          |                 | _        |  |   |       | 115         |          | Ш                   |          |          |          |          |               | $\Box$    |          |
|            | 16       | <b>V</b>     | 1  |                 |                 | _        |          |                     | _        |          | 66               | -        |                 | 4        | ــــــ   | $\square$       |          |  |   | _     | 116         | <u>L</u> | Ш                   |          | _        |          |          |               | _         |          |
|            | 17       | 7            |  | Н               | $\vdash$        | _        | _        | $\vdash \vdash$     | -        | <u> </u> | 67               | Ŀ        |                 | _        | _        | $\sqcup$        | 4        |  |   |       | 117         | <u> </u> | Щ                   | _        | _        |          | _        | _             | _         |          |
|            | 18       | <b>V</b>     | 1  |                 | $\vdash$        |          |          | $\vdash$            |          | <u> </u> | 68               | -        | $\rightarrow$   |          | ╄        |                 | 4        |  |   |       | 118         |          |                     | _        | _        |          | _        | $\dashv$      | _         | _        |
|            | 19       | <b>V</b>     | -  | Н               |                 | -        | -        | $\vdash$            |          | <u> </u> | 69               | -        | -               | +        | ┼-       | $\vdash$        |          |  |   |       | 119         |          | Ш                   | _        | _        | $\dashv$ |          |               | _         |          |
|            | 20       | 1            | ┾╌   | Н               | H               |          |          | $\vdash$            |          | <u> </u> | 70               | -        | -               |          | +        | $\vdash$        | -+       |  |   |       | 120         | <u> </u> |                     | $\dashv$ | _        | _        | _        | -             | _         | _        |
| <u> </u>   | 21<br>22 | 1            | ╁  | ┝╌┤             | -               | $\dashv$ | $\dashv$ | ╌                   | -        | <u> </u> | 71               | -        | $\dashv$        |          | +-       | $\vdash$        | -        |  |   |       | 121         | <u> </u> |                     | -        | $\dashv$ |          |          | $\dashv$      | -         | 4        |
| $\vdash$   | 23       | 1            | +  | $\vdash$        | $\vdash$        | -        | -        | 1                   | -        | <u> </u> | 7 <u>2</u><br>73 | -        | -               |          | +-       | $\vdash$        | +        | -  |   | -     | 122         | H        | $\vdash$            | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$      |           | $\dashv$ |
|            | 24       | Ť            | ╁  |                 | Н               | +        | -        |                     | -        | _        | 74               | •        | $\dashv$        |          | +        | ╂╼┼             | $\dashv$ | _  |   |       | 123<br>124  |          | Н                   | -        | -        | -        | -        | $\dashv$      | $\dashv$  |          |
|            | 25       | i            | +  | $\vdash$        | $\vdash$        | -        | $\dashv$ | $\vdash$            | -        |          | 75               | ŀ        |                 | +        | ╁        | $\vdash$        | +        |  |   |       | 125         | $\vdash$ |                     | $\dashv$ | _        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  |          |
|            | 26       | V            | +  | Н               | $\vdash$        | -        |          |                     | -        |          | 76               | •        | +               | +-       | ╁        | ┢═┼             | +        | +  |   |       | 126         | Н        | Н                   | $\dashv$ | $\dashv$ |          |          | -+            | $\dashv$  | $\dashv$ |
| <u> </u>   | 27       | V            | +  | $\vdash$        |                 | $\dashv$ |          |                     | -        |          | 77               | -        | -               | +        | +        | $\vdash$        | $\dashv$ | +  |   |       | 127         | H        | Н                   | $\dashv$ |          |          | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 28       | 1            | T  |                 |                 | 7        | $\neg$   |                     | $\dashv$ |          | 78               | -        | $\dashv$        | +        | +        | ╅               | +        |  | 1 |       | 128         | $\vdash$ |                     | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 29       | 1            |  |                 |                 |          |          | H                   | 1        |          | 79               | -        |                 | +        | +-       | $\vdash$        | _        |  |   |       | 129         | -        | Н                   |          | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 30       | 1            | $\top$   |                 |                 | $\neg$   |          | H                   | 7        |          | 80               | -        |                 |          | 1        | $\vdash$        | _        |  |   |       | 130         | $\vdash$ | Н                   |          |          | 一        | _        | 十             | $\dashv$  | _        |
|            | _31      | <b>V</b>     |  |                 | $\Box$          |          |          | П                   |          |          | 81               | -        | $\neg \uparrow$ | $\top$   | 1        | $\Box$          |          |  |   |       | 131         | H        | Н                   |          | $\dashv$ | $\dashv$ | _        | 一             | $\dashv$  | ヿ        |
|            | 32       | 1            |  |                 |                 |          | _        |                     |          |          | 82               | •        | $\Box$          |          |          |                 | $\neg$   |  |   |       | 132         |          |                     |          |          | _        | _        | $\dashv$      | ヿ         |          |
|            | 33       | √            |  |                 |                 |          |          |                     |          |          | 83               | •        |                 |          | L        |                 |          |  |   |       | 133         |          |                     |          |          |          | 一        |               | $\exists$ |          |
|            | 34       | <b>V</b>     |  |                 |                 | [        |          |                     |          |          | 84               | •        |                 |          |          |                 |          |  |   |       | 134         |          |                     |          |          |          | 1        |               | $\Box$    |          |
|            | 35       | √ /          | Ш  | $\sqcup$        | Ш               |          |          | $\sqcup \downarrow$ | _        | L        | 85               | ч        |                 | ——       |          | $\Box$          |          |  |   |       | 135         |          |                     |          |          |          | $\Box$   | $\Box$        | $\Box$    |          |
| <u> </u>   | 36       | <b>√</b>     | -  | $  \_  $        | $\vdash$        | _        | _        | $\sqcup \bot$       | _        |          | 86               | -        | $\dashv$        | _        | $\perp$  | $\sqcup$        |          |  |   |       | 136         | L.       | Ш                   |          |          | $\Box$   |          |               | _[        | $\Box$   |
| <u> </u>   | 37       | √ .          | -  | $\vdash \vdash$ |                 | _        | _        | $\vdash \vdash$     | _        |          | 87               | -        | _               |          | _        | $\sqcup$        | 4        |  |   |       | 137         | L_       |                     | $\Box$   | _        |          | _        |               | _         |          |
| <b> </b>   | 38       | <b>V</b>     | $\vdash$   | $\vdash \vdash$ | $\vdash \dashv$ |          |          | $\vdash \vdash$     |          |          | 88               | -        |                 | $\bot$   | _        | $\sqcup$        | _        |  |   |       | 138         | ļ        | Щ                   |          |          |          |          | ightharpoonup |           |          |
|            | 39       | 1            | $\vdash$   |                 | $\vdash$        | -        | $\dashv$ | $\vdash$            |          |          | 89               | -        | $\vdash$        | -        | -        | $\vdash \vdash$ | -        | _  |   |       | 139         | L        |                     |          | $\dashv$ | _ļ       | _ļ       | _             | _         | _        |
| <u> </u>   | 40       | 7            | ┿  | $\vdash \vdash$ | $\vdash \vdash$ |          |          | $\vdash$            |          |          | 90               | 1        |                 |          | -        | -               | +        |  |   |       | 140         | L        | -                   | _        |          |          | _        | $\dashv$      | _         |          |
| <b>-</b>   | 41       | V V          | $\vdash$   | $\vdash$        | ├─┤             | $\dashv$ | -        | ⊢-                  | $\dashv$ |          | 91               | <b>√</b> | $\dashv$        | -        | +-       | $\vdash \vdash$ | $\dashv$ | -  |   |       | 141         | <b> </b> | $\vdash \vdash$     | _        | _        | _        | _        | $\dashv$      |           |          |
|            | 42<br>43 | <del>V</del> | $\vdash$   | $\vdash \vdash$ | $\vdash$        | $\dashv$ |          | $\vdash$            | -        |          | 92               | 1        | -+              |          | +        |                 | +        | -  |   |       | 142         | <u> </u> | $\vdash$            | _        |          |          |          | -             | $\dashv$  | 4        |
| <b>-</b>   | 43       | <del> </del> | $\vdash$   | $\vdash$        | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash$            |          |          | 93               | <b>√</b> |                 | +-       | +        |                 | $\dashv$ | +  |   |       | 143         | _        | $\vdash \vdash$     |          | -        |          | -        |               | $\dashv$  | ᆜ        |
|            | 45       | 7            | H  | H               | $\dashv$        | $\dashv$ |          |                     |          | -        | 94<br>95         | √<br>√   |                 | +        | ╁        |                 | +        | +  |   |       | 144         | _        | $\vdash \vdash$     |          | $\dashv$ |          |          | $\dashv$      | -         | $\dashv$ |
| $\vdash$   | 46       | 1            | $\vdash$   | $\vdash$        | $\vdash \vdash$ | -        | $\dashv$ | $\vdash$            |          |          | 96               | 7        | $\dashv$        | +        | ╁        | $\vdash$        | $\dashv$ |  |   |       | 145<br>146  | $\vdash$ |                     |          | $\dashv$ |          |          | $\dashv$      | $\dashv$  | 괵        |
| $\vdash$   | 47       | 7            | $\vdash$   | $\vdash \vdash$ | $\vdash$        | -        | $\dashv$ | $\vdash \vdash$     | -        |          | 97               | 1        | -+              |          | ╁╌       | $\vdash \vdash$ | $\dashv$ | -  |   |       | 146         | -        | ${oldsymbol{dash}}$ | ᅱ        |          | $\dashv$ |          | $\dashv$      | $\dashv$  | -        |
| $\vdash$   | 48       | <del>i</del> | Н  | H               | $\dashv$        | +        | -        | $\vdash +$          | -        | ,        | 98               | 7        | $\dashv$        | +        | +        | $\vdash \vdash$ | $\dashv$ | $\dashv$   |   | -     | 147         | $\vdash$ | $\vdash \vdash$     | $\dashv$ |          |          | $\dashv$ | $\dashv$      | -+        | $\dashv$ |
| $\vdash$   | 49       | <b>i</b>     | H  | $\vdash$        | $\vdash$        | $\dashv$ | ᅱ        | $\vdash$            | -        |          | 99               | 7        | 十               | $\dashv$ | $\vdash$ | $\vdash \vdash$ | +        |  |   |       | 149         | $\vdash$ | $\vdash$            | -        | -        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
|            | 50       | 1            | M  | $\Box$          | $\exists$       | 7        | $\dashv$ |                     | <b>-</b> |          | 100              | Ť        | $\dashv$        | $\dashv$ | +        | $\vdash$        | $\dashv$ | <del>                                     </del> |   |       | 150         | $\vdash$ | H                   | $\dashv$ | -        | -        | -        | $\dashv$      | $\dashv$  | $\dashv$ |
|            |          |              | _  |                 |                 |          |          |                     |          |          |                  |          |                 |          |          |                 |          |  |   |       |             |          | _ I                 | - 1      | - 1      |          | 1        |               |           |          |